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Subject Index

The alphabetically ordered subject index contains entries based on the most important subjects mentioned in the title and abstract. The chemical names used as index terms are chosen on the basis of the nomenclature recommended by the International Union of Pure and Applied Chemistry. Organic compounds are indexed at the parent compound followed by the substituent groups; esters and salts of organic acids are indexed under the names of their acid constituents.

As far as possible, dyes are indexed under the Colour Index names; the names given to enzymes are those recommended by The International Union of Biochemistry; drugs are indexed at their official B.P. or B.P.C. names or the Approved Names recommended by the British Pharmacopoeia Commission; and pesticides are indexed at the names recommended by the British Standards Institution.

Letter-by-letter alphabetization is used for the bold subject headings. Repetition of words or phrases that occur in preceding entries is avoided by the use of indentation.

E.g., Waste water, analysis of, by GC, 6H63
detmn. of cadmium in, by AAS, 2H61

Author Index

The names of all authors are listed alphabetically, and prefixes are treated as part of the surname. Where two or more authors have the same surname and initials, no attempt at resolution has been made. For instance, William Smith and Walter Smith will be included under the single entry "Smith, W."

The German ä, ö and ü and the Danish or Norwegian ø have been rendered as ae, oe, ue and oe, respectively.

Subject Index Guide

This guide directs the user to the preferred index term, as used in the Subject Index. Some headings have "*see also*" references to direct the user to more specific or closely related headings. "*See*" references indicate that the subject is indexed under another heading.

AAS *see* spectrophotometry, atomic-absorption
acetic acid, ethylenediaminetetra- *see* EDTA
acetylene derivatives *see* alkynes
acids *see also* alkanesulfonic acids; amino-acids; arenesulfonic acids; carboxylic acids; fatty acids
activation analysis *see* radioactivation analysis
ADP *see* adenosine 5′-pyrophosphate
AES *see* spectrophotometry, atomic-emission
AFS *see* spectrophotometry, atomic-fluorescence
alcohols *see also* diols; polyols
alkanes *see also* cycloalkanes
alkanols *see* alcohols, aliphatic
alkenes *see also* cycloalkenes
alloys *see also headings such as* iron alloys
amines *see also* diamines; polyamines
cAMP *see* adenosine cyclic 3′,5′-phosphate
AMP *see* adenosine 5′-monophosphate
ATP *see* adenosine 5′-triphosphate
Auger electron spectroscopy *see* electron spectroscopy, Auger
automated analysis *see also* continuous-flow analysis; flow-injection analysis
AZT *see* zidovudine

bacteria *see* micro-organisms
benzenediamine *see* phenylenediamine
beverages, alcoholic *see also* specific named drinks
beverages, non-alcoholic *see also* fruit juices
biochemical analysis *see also* clinical analysis
biological tissues *see also* plants *and* specific organs and tissues
biomolecules *see also* biochemical compounds
biosensors *see also* electrodes; immunosensors; sensors
BOD *see* biochemical oxygen demand
BSA *see* bovine serum albumin

carbohydrates *see also* aldoses; amino-sugars; ketoses; monosaccharides *and similar headings*
carbon *see also* carbonate-carbon; diamond; graphite
carbonyl compounds *see also* aldehydes; ketones
carboxylic acids *see also* fatty acids
CFC *see* hydrocarbons, aliphatic, chlorofluoro-
CMP *see* cytidine 5′-monophosphate
coal ash *see also* fly ash
COD *see* chemical oxygen demand
corn oil *see* maize oil
corn syrup *see* maize syrup
CSF *see* cerebrospinal fluid
CZE *see* electrophoresis, capillary zone

dairy products *see also* butter; cheese; cream; ghee; ice-cream; whey; yogurt
DELFIA *see* dissociation-enhanced lanthanide fluoroimmunoassay
DNA *see* nucleic acids, deoxyribo-
drugs *see also* biopharmaceuticals; pharmaceutical analysis; pharmaceutical preparations
DSC *see* calorimetry, differential scanning
DTA *see* thermal analysis, differential
dyes *see also* specific commercial or Colour Index names

EIA *see* enzyme immunoassay
electrodes *see also* biosensors; sensors; immunosensors
elements *see also* trace elements
ELISA *see* enzyme-linked immunosorbent assay
EMIT *see* enzyme-multiplied immunoassay technique
enzymes *see also* specific enzyme names
ESR *see* electron spin resonance
estrogen *see* oestrogen
ethers *see also* crown ethers
ethers, thio- *see* sulfides
ethylenediaminetetra-acetic acid *see* EDTA

FAD *see* flavine-adenine dinucleotide
fatty acids *see also* carboxylic acids
FET *see* field-effect transistors
FIA *see* flow-injection analysis
fish *see also* specific species of fish
fly ash *see also* coal ash
forensic analysis *see also* arson analysis
FPIA *see* fluorescence polarization immunoassay
fruit *see also* citrus fruit *and* specific fruits
FTIR spectrometry *see* spectrometry, absorption, infra-red, Fourier-transform

gases *see also* exhaust gases; fuel gases; waste gases
GC *see* chromatography, gas
globulins *see also* immunoglobulins
glycols *see* diols
GPC *see* chromatography, gel-permeation

hemoglobin *see* haemoglobin
HPLC *see* chromatography, liquid, high-performance
HPTLC *see* chromatography, thin-layer, high-performance
hydrocarbons *see also* alkanes; alkenes; alkynes
hydrogen *see also* deuterium; tritium

IEF *see* isoelectric focusing
immunoassay *see also* chemiluminescence immunoassay; dissociation-enhanced lanthanide fluoroimmunoassay; electrochemical immunoassay; enzyme immunoassay; enzyme-linked immunosorbent assay; enzyme-multiplied immunoassay technique; fluorescence polarization immunoassay; fluoroimmunoassay; immunofluorimetric assay; immunoluminometric assay; immunometric assay; immunoradiometric assay; phosphorescence immunoassay; radioimmunoassay
indicators *see also* specific names of indicators
IRMA *see* immunoradiometric assay
IR spectrometry *see* spectrometry, absorption, infra-red
ISE *see* electrodes, ion-selective
ISFET *see* field-effect transistors, ion-selective

lanthanides *see* rare-earth metals
LC *see* chromatography, liquid
LIMS *see* laboratory information management systems
luminescence immunoassay *see* chemiluminescence immunoassay

MECA *see* spectrophotometry, molecular emission cavity analysis
MEKC *see* chromatography, micellar electrokinetic
mercaptans *see* thiols
metals *see also* alloys
minerals, ores and rocks *see also* geochemical analysis; geological materials; lunar materials; meteorites; sediments

NAA *see* radioactivation analysis, by neutrons
NAD *see* nicotinamide-adenine dinucleotide
NADH *see* nicotinamide-adenine dinucleotide, reduced
neutron-activation analysis *see* radioactivation analysis, by neutrons
NIR spectrometry *see* spectrometry, absorption, near-infra-red
nitrogen *see also* amino-nitrogen; ammonia-nitrogen; cyanide-nitrogen; nitrate-nitrogen; nitrite-nitrogen; urea-nitrogen
NMR *see* nuclear magnetic resonance
nuclides *see* radioisotopes
nuts *see also* specific types of nuts

olefins *see* alkenes
ores *see* minerals, ores and rocks *and* ores of specific elements

PAGE *see* electrophoresis, gel
PAH *see* hydrocarbons, polycyclic aromatic
PCB *see* biphenyl derivatives, chloro-
PEG *see* polyoxyethylene glycol
peptides *see also* bilipeptides; glycopeptides; neuropeptides; nucleopeptides; phosphopeptides; polypeptides
pesticides *see also* fungicides; herbicides

pharmaceutical analysis *see also* drugs
PIGE *see* spectrometry, emission, gamma-ray, particle-induced
PIXE *see* spectrometry, emission, X-ray, particle-induced
poly(ethylene oxide) *see* polyoxyethylene glycol
polymers *see also* copolymers; plastics; resins
precious metals *see* noble metals
proteins *see also* apolipoproteins; biliproteins; glycoproteins; lipoproteins; oncoproteins; phosphoproteins; selenoproteins
PTFE *see* poly(tetrafluoroethylene)
PVC *see* poly(vinyl chloride)

reagents *see also* specific reagent names
RIA *see* radioimmunoassay
RNA *see* nucleic acids, ribo-
rocks *see* minerals, ores and rocks

sea water *see* waters, natural, sea
sensors *see* biosensors; electrodes; immunosensors
SFE *see* extraction, supercritical-fluid
SIMS *see* mass spectrometry, secondary-ion
size-exclusion chromatography *see* chromatography, gel-permeation
SPE *see* extraction, solid-phase
SPME *see* extraction, micro-, solid-phase
sulfur *see also* sulfate-sulfur; sulfide-sulfur; thiol-sulfur; thiolate-sulfur

TGA *see* thermal analysis, gravimetric
TLC *see* chromatography, thin-layer

UV spectrophotometry *see* spectrophotometry, absorption, ultra-violet - visible

vegetable oils *see also* specific oils
vegetables *see also* specific vegetables

waste gases *see also* exhaust gases
waste solids *see also* fly ash; slag
waste water, pulp-mill *see* paper, liquors from
waters, natural *see also* ice; rain; snow
wood pulp *see* paper pulp

XPS *see* electron spectroscopy, photo-, X-ray
XRF *see* spectrometry, fluorescence, X-ray

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